



DM 10

Battery Powered Digital Pressure Gauge

Ceramic Sensor

class 1

Nominal pressure

from 0 ... 1.6 bar up to 0 ... 250 bar

Special characteristics

- ▶ rotatable housing and display
- ▶ LC display
4.5-digit 7-segment display
- ▶ standard battery CR 2450
operation period > 1 500 h

Functions

- ▶ min / max function with reset function
- ▶ auto-zero
- ▶ setting of pressure unit
(bar, mbar, psi, MPa, mH₂O)
- ▶ configuration of switch-off automatic

The compact low-cost digital pressure gauge DM 10 is battery-powered and has an adjustable housing; it is thus extremely suitable for mobile pressure monitoring. The 4.5-digit LC-display indicates the battery status, the measurement value as well as the unit, this enables a fast and precise reading.

It is possible to switch between the most common units (bar, psi, Pa, MPa). Additional functions as auto-zero, min / max values and an automatic switching-off complete the DM 10 profile.

Preferred areas of use are



Mobile pressure monitoring
Plant and machine engineering
Pneumatics / hydraulics



Environmental engineering
(water – sewage – recycling)

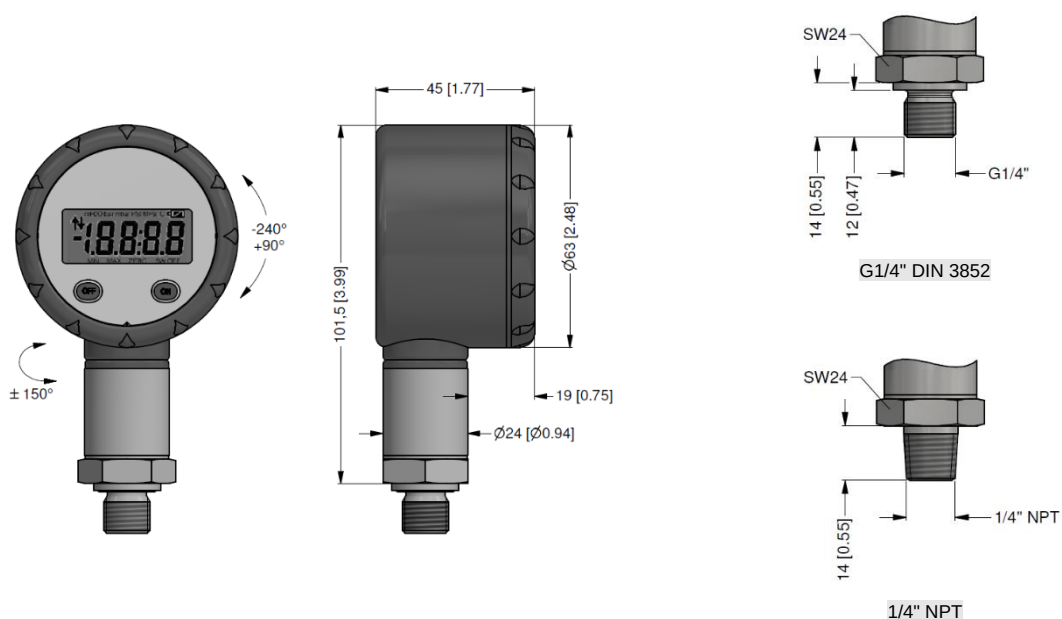


Input Pressure													
Nominal pressure gauge	[bar]	1.6	2.5	4	6	10	16	25	40	60	100	160	250
Overpressure	[bar]	4	4	10	10	20	40	40	100	100	200	400	400
Burst pressure	[bar]	7	7	15	15	35	70	70	150	150	250	450	450
Vacuum resistance		unlimited											

Performance	
Accuracy ¹	≤ ± 1.0 % FSO
Measuring rate	1/sec
Long term stability	≤ ± 0.3 % FSO / year
¹ accuracy according to IEC 61298-2 – limit point adjustment (non-linearity, hysteresis, repeatability)	
Thermal effects (offset and span)	
Tolerance band	≤ ± 0.5 % FSO / 10 K (typ.) in compensated range 0 ... 50 °C
Permissible temperatures	
Medium	-25 ... 85 °C
Environment	0 ... 70 °C
Storage	0 ... 70 °C
Materials	
Pressure port / housing	stainless steel 1.4301 (304)
Display housing	PA 6.6, Polycarbonate
Seals (media wetted)	FKM others on request
Diaphragm	ceramics Al ₂ O ₃ 96 %
Media wetted parts	pressure port, seals, diaphragm
Miscellaneous	
Display	LC-Display, visible range 36 x 15 mm; 4.5-digit 7-segment-display, digit size 8.5 mm, range of indication ±1999 decimal place is calculated automatically by device considering range and accuracy - customer-setting not possible
Electromagnetic compatibility	emission and immunity according to EN 61326
Supply	3 V lithium battery (CR 2450)
Data storage	EEPROM (non-volatile)
Ingress protection	IP 65
Installation position	any
Weight	approx. 150 g
Operational life of battery	min. 1 500 h with permanent operation
Mech. operational life	100 million load cycles
CE-conformity	EMC directive: 2014/30/EU pressure equipment directive: 2014/68/EU (Modul A) ²

² This directive is only valid for devices with maximum permissible overpressure > 200 bar.

Dimensions / Mechanical connections (mm / in)



The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

Ordering code DM 10

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